

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 09180616  
PUBLICATION DATE : 11-07-97

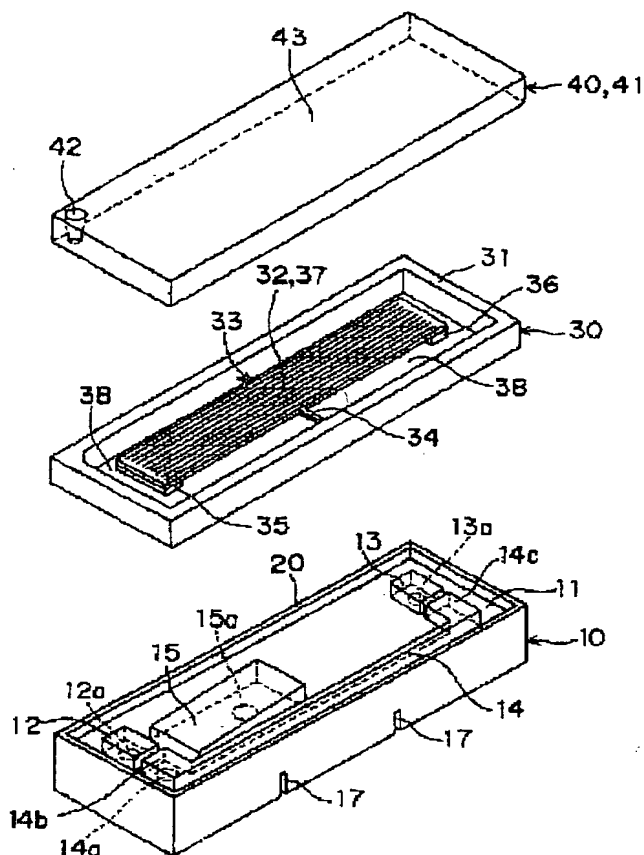
APPLICATION DATE : 28-12-95  
APPLICATION NUMBER : 07343569

APPLICANT : OMRON CORP;

INVENTOR : SASAKI AKIRA;

INT.CL. : H01H 59/00 H01H 49/00

TITLE : ELECTROSTATIC RELAY AND ITS  
MANUFACTURE



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide an electrostatic relay having high productivity and causing no dispersion on the operating characteristic by providing a specific spacer section on a fixed contact point block or a moving contact point block.

**SOLUTION:** This electrostatic relay is constituted of a fixed contact point block 10 provided with fixed contact points 12, 13 and a driving electrode 15 on the upper face of an insulating substrate 11 and a moving contact point block 30 provided with a moving piece 32 contactably/separably facing the driving electrode 15 on a wafer 31 made of a semiconductor crystal base material and arranged to face the fixed contact point block 10. The moving piece 32 is rotated in the thickness direction by the electrostatic attracting force generated when a voltage is applied between the driving electrode 15 and the moving piece 32, and the moving contact points 35, 36 provided at the lower face tip edge section of the moving piece 32 are stuck/separated to/from the fixed contact points 12, 13 of the fixed contact point block 10. A spacer section, e.g. 20, for securing the operating space of the moving piece 32 is integrally formed on at least one peripheral edge section within the opposite faces of the fixed contact point block 10 and the moving contact point block 30 as an improvement point.

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